Database System Providing Improved Methods For Data Replication

Abstract

A system providing improved methods for data replication is described. A method for replicating a transaction from a primary database to a replicate database while the replicate database remains available for use comprises: recording information about a transaction being performed at a primary database in a transaction log; synchronously copying the information about the transaction in the transaction log to a mirrored transaction log; generating a reconstructed transaction based on the information about the transaction copied to the mirrored transaction log; and applying the reconstructed transaction at the replicate database while the replicate database remains available for use.